AMERCOAT 352 RESIN

MSDS EU 01 / EN Version 1

Print Date 5/29/2010 Revision date 28-05-10

Trade name	:	AMERCOAT	Г 352 RE	SIN		
Recommended use	:	coating				
Company		PPG Coating Noordersinge B-2040 Borg	el 23	3VBA		
Telephone	:	+32 3 360647	70			
Telefax	:	+32 3 360643	35			
Emergency telephone numb	er :	+31 20 40752	210			
E-mail address	:	PMC.Safety	@PPG.c	om		
Irritant Dangerous for the environm Hazardous components : reaction product: bisphenol-A oxirane, mono[(C12-14-alkyl	-(epichlorh		resin (nur	nber average	nolecularweight ≤ 70	0)
Dangerous for the environm Hazardous components : reaction product: bisphenol-A oxirane, mono[(C12-14-alkyl R-phrase(s) : IRRITATING TO EYES AN MAY CAUSE SENSITIZAT TOXIC TO AQUATIC ORG ENVIRONMENT. P-phrase(s) :	A-(epichlorh oxy)methyl] D SKIN. ION BY SK ANISMS, M	derivs. IN CONTAC IAY CAUSE	T. LONG-T	ERM ADVE	-	
Dangerous for the environm Hazardous components : reaction product: bisphenol-A oxirane, mono[(C12-14-alkyl R-phrase(s) : IRRITATING TO EYES AN MAY CAUSE SENSITIZAT TOXIC TO AQUATIC ORG ENVIRONMENT.	(epichlorh oxy)methyl] D SKIN. ION BY SK ANISMS, M See informa	derivs. IN CONTAC IAY CAUSE tion supplied	T. LONG-T by the ma	ERM ADVE	-	
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Solvent naphtha (petroleum), light arom.	265-199-0	64742-95-6		Nota H, Nota P	R10 N; R51/53 Xn; R65 Xi: R37	>=0.10 - <1.00%
					R66 R67	
reaction product: bisphenol- A-(epichlorhydrin) epoxy resin (number average molecularweight \leq 700)		25068-38-6	12 2008		Xi; R36/38 R43 N; R51, R53	>=25.00 - <50.00%
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	271-846-8	68609-97-2			Xi; R36/38 R43 N; R51/53	>=2.50 - <10.00%

Producer declares that for R-phrases not mentioned in chapters 3, the entire amount of hazardous substances is below limits. For components with an occupational threshold limit value see chapter 8. The benzene content of this product is less than 0.1%. Nota P and H apply.

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

4. FIRST AID MEASURES

General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
Eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.
Skin contact	 Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.
Ingestion	: If accidently swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.
Burns	: If spills on clothing catch fire, wash with plenty of water. Remove loose clothing. Do not remove clothing that has melted to the skin.Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus.Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.Extinguishing media which shall not be used for safety reasons: Do NOT use water jet.	Specific hazards during fire fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray. Extinguishing media which shall not be used for safety : Do NOT use water jet.		:	In the event of fire, wear self-contained breathing apparatus.
Extinguishing media which : Do NOT use water jet. shall not be used for safety	8	:	
	shall not be used for safety	:	

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Personal precautions	:	Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.
Environmental precautions	:	Try to prevent the material from entering drains or water ways. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods for cleaning up	:	Clean with detergents. Avoid solvents. Contain and collect spillage with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Additional advice	:	Refer to section 15 for specific national regulation.
IANDLING AND STORAGE		
Handling		
Safe handling advice	:	Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contac with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8.
Advice on protection against fire and explosion	:	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Isolate from sources of heat, sparks and open flame. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
Storage		
Requirements for storage areas and containers	:	Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and 30° C (41 - 86 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavie than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).
Advice on common storage		Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components on the national list and/or the European TLV list (98/24/EC):

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis	
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xylene IndicativeIndicativecan be absort	bed through	1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL		
<i>skin</i> Solvent naphtha (petroleum), ligh	t arom	64742-95-6	125		ESIG TWA		
sorvent naphtna (perforeant), ngi	it aronn.	0+7+2-75-0	125				
Personal protective equipment			1				
General advice							
Respiratory protection	bootl vapo fed ru parti- limit	n, ventilation is ur in all cases. espirator durin culates and sol s.	s unlikly t In such c g the spra vent vapo	o be sufficie ircumstance ying proces ur concentra	t, have to work inside the spray ent to control particulates and solvent es they should wear a compressed air- s and until such time as the ation has fallen below the exposure		
Hand protection	Barri howe Skin	er creams may ever not be app should be was	help to p blied once hed after	rotect the exposure has contact.	otective gloves. xposed areas of skin, they should as occurred. under Standard EN 374: Protective		
		es against cher					
	Recommended gloves: Viton Minimum breakthrough time: 480 min						
	The recommended gloves are based on most common solvent in this product.						
	prote to El with minu NOT durat work hand prote	ection class of N 374) is recor a protection cl tes according ICE: The selec- tion of use in a place factors s led,physicalrec- totion), potenti	6 (breakth nmended. ass of 2 o to EN 374 ction of a workplac such as, bu quirement al body re	rough time When only r higher (bro specific glo e should als tt not limite s (cut/punct actions to g	contact may occur, a glove with a greater than 480 minutes according brief contact is expected, a glove eakthrough time greater than 30 nended. ve for a particular application and so take into account all relevant d to: Other chemicals which may be use protection, dexterity, thermal clovematerials, as wellas the he glove supplier.		
Eye protection Skin and body protection	: Perso conta dang	act. Working c erous melting	ear protection protection of the second seco	ctive clothin st not consis	n. gg. Skin should be washed after st of textiles, which show a fire. Workers should wear antistatic		
Additional advice	footv	vear.					
Environmental protection		r to national re ection.	gulations	in chapter 1	5 for regulations on environmental		
Personal protection Protective equipment	: Eye	protection, safe	ety gloves	and combi	mask P1A1		
Please contact your personal pro	tection equi	pment supplie	r for furth	er advice			
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9. PHYSICAL AND CHEMICAL PROPERTIES

Form	•	viscous
Colour		various
Odour	:	characteristic
Flash point	:	characteristic
Flash point	•	Notes not applicable
. . 		Note: not applicable
Autoignition temperature	:	
		Note: no data available
Upper explosion limit	:	7.16 %(V)
		327.29 g/m3
Lower explosion limit	:	0.96 %(V)
Ĩ		44.14 g/m3
Density	:	2.01 g/cm3
Density	•	at 20 °C
XX7-41-1-1-1-4		
Water solubility	:	no data available
		1
рН	:	no data available
Viscosity, dynamic	:	30,000 mPa.s at 23 °C
Flow time	:	>= 60 s
		Transversal section: 6 mm
		Method: ISO 2431 (EN 535) 6 mm CUP
. STABILITY AND REACTIVITY		
Conditions to avoid		Avoid temperatures above 60°C (140 E) direct sunlight and contect with
Conditions to avoid	:	Avoid temperatures above 60°C (140 F), direct sunlight and contact with

Hazardous reactions	:	sources of heat. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition	:	In case of fire hazardous decomposition products may be produced such as:
products		Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx),
		dense black smoke.

11. TOXICOLOGICAL INFORMATION

10.

Product information	There is no data available for this product. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 3 and 15 for details.			
Acute oral toxicity	: May cause nausea, abdominal spasms and irritation of the mucous membranes.			
Acute inhalation toxicity	: Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.			
Skin irritation	 Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies. 			
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	accordance with Annex II to Regulation (EC) No. 1907/2006.	PPG			
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Eye contact Further information	Irritating to eyes.There is no data available for this product.				
Acute Toxicity Data for Compor	nents				
2. ECOLOGICAL INFORMATION					
Further information	: No data is available on the product itself. The prepar following the conventional method of the Dangerou 1999/45/EC and is classified for ecotoxicological pr sections 3 and 15 for details. The product should not drains, water courses or the soil.	s Preparations Directive operties accordingly. See			
3. DISPOSAL CONSIDERATIONS					
Product	: The product should not be allowed to enter drains, w Disposal together with normal waste is not allowed. according to local regulations.				
Waste key for the unused product	: The European Waste Catalogue classification of this product, when disposed of as waste is:				
	08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances.				
	If this product is fully cured or mixed with other wa longer apply. If mixed with other wastes, the approp assigned. For further information contact your local	briate code should be			
	always transport in closed containers that are upright, labell now what to do in the event of an accident or spillage. h ADR for road, IMDG for sea and IATA for air transport:	led and secure. Ensure that			
Transport to be in accordance with UN-Number Proper shipping name Class Packing group (ADR) Label Proper shipping name (ADR) Technical name 1	 3082 ENVIRONMENTALLY HAZARDOUS SUBSTAN 9 III 9 ENVIRONMENTALLY HAZARDOUS SUBSTAN epoxy resin (Mw <= 700) C12-C14-alkylelycidylether 				
Transport to be in accordance with UN-Number Proper shipping name Class Packing group (ADR) Label Proper shipping name (ADR) Technical name 1 Technical name 2 Packing group (IMDG/IATA) Marine Pollutant (IMDG) Marine Pollutant component (IMD EmS (IMDG)	 ENVIRONMENTALLY HAZARDOUS SUBSTAN 9 III 9 ENVIRONMENTALLY HAZARDOUS SUBSTAN epoxy resin (Mw <= 700) C12-C14-alkylglycidylether III Marine Pollutant PG) F-A, S-F 				
Transport to be in accordance with UN-Number Proper shipping name Class Packing group (ADR) Label Proper shipping name (ADR) Technical name 1 Technical name 2 Packing group (IMDG/IATA) Marine Pollutant (IMDG) Marine Pollutant component (IMD	 ENVIRONMENTALLY HAZARDOUS SUBSTAN 9 III 9 ENVIRONMENTALLY HAZARDOUS SUBSTAN epoxy resin (Mw <= 700) C12-C14-alkylglycidylether III Marine Pollutant epoxy resin (Mw <= 700) 				

SAFETY DATA SHEET This Safety Data Sheet is prepar	ed in accordance with Anne	< II to Regulation (EC) No. 1907/2006.	PPG PPG Protective & Marine Coatings
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. REGULATORY INFORMA	TION		
The product is classified and		Directive 1999/45/EC.	
Irritant	Dangerous for the		
irritant	environment		
		poxy resin (number average molecul	arweight ≤ 700)
R-phrase(s)	: R36/38 R43 R51/53	Irritating to eyes and skin. May cause sensitization by sl Toxic to aquatic organisms, n adverse effects in the aquatic	nay cause long-term
S-phrase(s)	: S23 S36/37 S38 S61	Do not breathe spray. Wear suitable protective clot In case of insufficient ventila respiratory equipment. Avoid release to the environn instructions/ Safety data shee	tion, wear suitable nent. Refer to special
P-phrase(s)	: Conta	ains epoxy constituents. See informati manufacturer.	ion supplied by the
	safety legislation. The provi	not constitute the user's own assessmisions of the national health and safet	
OTHER INFORMATION This product contains a com	plex mixture of hydrocarbor	ns. Detailed information can be obtair	ed from the producer.
Explanation of R-phrases			in the product.
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xylene	R10	Flammable.
	R20/21	Harmful by inhalation and in contact with skin.
	R38	Irritating to skin.
Solvent naphtha (petroleum), light arom.	R10	Flammable.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse
		effects in the aquatic environment.
	R65	Harmful: may cause lung damage if swallowed.
	R37	Irritating to respiratory system.
	R66	Repeated exposure may cause skin dryness or cracking.
	R67	Vapours may cause drowsiness and dizziness.
reaction product: bisphenol-A-	R36/38	Irritating to eyes and skin.
(epichlorhydrin) epoxy resin (number	R43	May cause sensitization by skin contact.
average molecularweight \leq 700)	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
oxirane, mono[(C12-14-alkyloxy)methyl]	R36/38	Irritating to eyes and skin.
derivs.	R51/53	Toxic to aquatic organisms, may cause long-term adverse
	R43	effects in the aquatic environment. May cause sensitization by skin contact.

This Safety Data Sheet is based on the Safety Data Sheets obtained from the producer/manufacturer or/and internet databases and valid regulations considering hazardous substances/preparations.

Training advice:

Persons taking part in a turnover of hazardous products ought to be trained in product handling, safety and hygiene.

Drivers ought to be trained and obtain a certificate in accordance with the requirements of transport regulations (ADR).

Version: 1

Revision date 28.05.2010

The information contained in this safety data sheet is based on the present state of knowledge and current European and National legislation at the date of issue. The supplier reserves the right to modify data on the safety data sheet without further notice. Any change in data will normally be followed by the issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with the nearest sales office of the supplier to establish that the data is still valid. As the specific conditions of use of the product are outside the suppliers control, the supplier is not reponsible for the (negative) consequences of these specific conditions of use, which are outside of the suppliers control and which are not compliant with the handling, storage and other instructions in this safety data sheet.

After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.